Baltimore City Department of Public Works
Storm Water Engineering
Abel Wolman Municipal Building
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Baltimore, MD 21202

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DRAWING:_____
ENGINEER:_____
REVIEWER:_____
DATE: _____

STORM WATER ENGINEERING – REVEW CHECKLIST

_____I. PLAN REQUIREMENTS

_____A. Vicinity Map
_____1. North arrow and scale.

_____B. Drainage area map and flow tabulations shown on plan.

_____C. Drafting and format for plan in accordance with Baltimore City "Manual of Design Criteria" Section 1 General instructions – Appendix

_____D. Scale, North Arrow and grid ticks (Baltimore City Survey Control)

_____E. Drainage District, W&WW Plat Reference, Benchmark and Elevation

_____F. All Existing Utilities shown and labeled with drawing reference.

_____G. Right-of-Way line clearly shown.

_____H. Proposed Storm Drains labeled with size type and south azimuth indicating direction (not needed for inlet connections.

_____I. Structures indicated on Plan with appropriate Baltimore City reference (e.g., Type 'E' Inlet BC 376.13)

_____J. Easements
_____1. Bearings and distances labeled.

_____2. Easement width adequate for storm drain.

_____3. Identify easements to be extinguished for utility relocation.

_____K. Title block, Signature and Certifications

_____1. Engineers Seal and signature

_____2. City Agency initial boxes(all pages for PWDA)

_____3. Signature lines for Utility Engineering Chief, Division Chief, Bureau Head and Director (PWDA)

_____ L. SWE File Ref. Number (provide to engineer on preliminary review).

II. PROFILE REQUIREMENTS

_____A. Pipe Size,type and slope.

_____B. Stationing shown on profile.

_____C. Manhole channels labeled.

_____D. Flow Rate (cfs) and velocity (fps) with subscript indicating design storm (e.g. Q_{10}=__cfs, V_{10}=__fps)

_____E. Hydraulic Grade Line (HGL) with storm frequency (e.g. 10-Year HGL)

_____F. Pipe Inverts in and out of structure

_____G. Existing and proposed grade lines.

_____H. All existing and proposed utility crossings. Minimum 12" clear from storm drains.

_____III. DETAILS

_____A. Collar tap details shown (size limitations per Criteria page 4-12).

_____B. Junction chambers, special manholes, and misc. structures detailed.

_____C. Provide structural computations.

_____IV. DESIGN

_____A. Sufficient number of inlets. Check spacing and capacity.

_____B. Gutter Flow and maximum permissible spread per Criteria (page 4-10).

_____C. Only combination inlets in sumps.

_____D. Pipe class/type adequate for depth and application

_____E. Pipe size adequate for flow rate as determined from hydrology.

_____F. Appropriate Design Strom used for hydrology (per City design Manual).

_____G. Pipe conduit location